INDEX OF SHEETS

MISCELLANEOUS DETAILS

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HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS 001001-02 DECIMAL OF AN INCH AND OF A FOOT TEMPORARY EROSION CONTROL SYSTEMS 001006 280001-05 PAVEMENT JOINTS PAVEMENT FARRIC 420701-02 442001-04 CLASS A PATCHES 442101-07 CLASS B PATCHES CLASS C AND D PATCHES 442201-03 HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS 542546-01 FLUSH INLET BOX FOR MEDIAN 604006-04 FRAME & GRATE, TYPE 3 604061-02 FRAME & GRATE, TYPE 12
CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER 606001-04 606101-04 TYPE A GUTTER (INLET, OUTLET AND ENTRANCE)
OUTLETS, TYPE 2 FOR TYPE A GUTTER 606111-03 TYPE B GUTTER (INLET, OUTLET AND ENTRANCE)
OUTLETS, TYPE 2 FOR TYPE B GUTTER
PC CONCRETE ISLANDS AND MEDIANS 606201-02 606211-03 606301-04 CORRUGATED PC CONCRETE MEDIANS STEEL PLATE BEAM GUARDRAIL 606306-03 630001-09 630301-05 SHOULDER WIDENING FOR TYPE 1(SPECIAL) GUARDRAIL TERMINALS TRAFFIC BARRIER TERMINAL, TYPE 2 TRAFFIC BARRIER TERMINAL, TYPE 6 631011-07 TRAFFIC BARRIER TERMINAL, TYPE 6A TRAFFIC BARRIER TERMINAL, TYPE 6B 631032-06 631033-04 REFLECTOR AND TERMINAL MARKER PLACEMENT 635006-03 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS SHOULDER RUMBLE STRIPS OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY

LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS ≥ 45 MPH TO 55 MPH

LANE CLOSURE, MULTILANE, FOR SPEEDS ≥ 45 MPH TO 55 MPH

LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS ≥ 45 MPH

LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS ≥ 45 MPH 701101-02 701106-02 701421-03 701422-03 701426-04 701427 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS & 40 MPH URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN 701601-07 URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN 701606-07 701701-07 URBAN LANE CLOSURE, MULTILANE INTERSECTION TRAFFIC CONTROL DEVICES TELESCOPING STEEL SIGN SUPPORT
BASE FOR TELESCOPING STEEL SIGN SUPPORT 728001-01 731001-01 TYPICAL PAVEMENT MARKINGS TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 781001-03 HANDHOLES
STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES 857001-01 TRAFFIC SIGNAL GROUNDING & BONDING DETECTOR LOOP INSTALLATIONS 886001-01 TYPICAL LAYOUTS FOR DETECTION LOOPS 886006-01

THE FOLLOWING APPLICATION RATES WERE USED FOR QUANTITIY CALCULATIONS:

AGGREGATE ITEMS HOT-MIX ASPHALT AGGREGATE (PRIME COAT) BITUMINOUS MATERIALS (PRIME COAT)

2.05 TON/CU YD 112 LB/SQ YD/IN 0.0015 TON/SQ YD 0.0003129 TON/ SQ YD

GENERAL NOTES

1. THE CONTRACTOR AND ENGINEER SHOULD BE AWARE THAT THE PROJECT CENTERLINE AND STATIONING SHOWN IN THESE PLANS WERE ARTIFICIALLY CREATED BY DESIGN PERSONNEL, BASED ON SCALING FROM AERIAL PHOTOGRAPHS. THE LOCATIONS OF PROPOSED DESIGN FEATURES - WHILE SHOWN IN RELATIONSHIP TO EXISTING TOPOGRAPHIC FEATURES - SHOULD BE CONSIDERED APPROXIMATE.

2. BECAUSE THIS PROJECT INVOLVES REPAIR ITEMS THAT CAN VARY IN AMOUNT DUE TO CHANGING CONDITIONS OVER TIME, THE ENGINEER MAY ADJUST THE QUANTITIES OF SOME PAY ITEMS.

3. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

4. THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.

5. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO ALL UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

UTILITY CO. *AMEREN IP *AMEREN UE *AT&T ILLINOIS *BUCKEYE PARTNERS L.P WOOD RIVER PIPELINE *CASEYVILE TOWNSHIP ADVANCED WASTEWATER TREATMENT SYSTEM	TYPE GAS ELECTRIC COMMUNICATIONS PIPELINE SANITARY SEWER	LOCATION BURIED BURIED & AERIAL BURIED & AERIAL BURIED BURIED
*CENTERPOINT ENERGY *CHARTER COMMUNICATIONS, INC *CITY OF EAST ST. LOUIS *EAST ST. LOUIS HOUSING AUTHORITY *CITY OF FAIRVIEW HEIGHTS *ILLINOIS AMERICAN WATER COMPANY *METRO *CITY OF O'FALLON *CITY OF O'FALLON *CITY OF O'FALLON	PIPELINE CABLE TV LIGHTING COMMUNICATIONS SANITARY SEWER WATER COMMUNICATIONS LIGHTING WATER & SANITARY SEWER	BURIED BURIED & AERIAL BURIED
*PAETEC *QWEST COMMUNICATIONS *SHO-ME TECHNOLOGIES	COMMUNICATIONS COMMUNICATIONS COMMUNICATIONS	BURIED & AERIAL BURIED & AERIAL BURIED

MEMBERS OF J.U.L.I.E. (800)-892-0123 OR 811 ARE INDICATED BY *. NGN-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

6. PROTECTIVE COAT SHALL BE APPLIED TO ALL GUTTER FLAGS, FACE OF CURB, AND MEDIAN SURFACE.

7. MIXTURES FOR JOINTS, CRACKS, AND FLANGEWAYS SHALL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS. COST INCLUDED IN THE CONCRETE PAY ITEM

8. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR

DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

9. ANY EARTHWORK ASSOCIATED WITH REMOVAL OR PLACEMENT OF THE CURB, GUTTER AND COMBINATION CURB & GUTTER SHALL BE INCLUDED IN THE COST FOR THE CURB, GUTTER AND COMBINATION CONCRETE CURB & GUTTER.

10. IF ANY UNSUITABLE MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, IT WILL BE NECESSARY TO REMOVE THE UNSUITABLE MATERIAL AND REPLACE IT WITH A SUITABLE MATERIAL AS APPROVED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 202.08 & 109.04 OF THE STANDARD SPECIFICATIONS.

11. ALL EARTH AREAS DISTURBED WITHIN THE PROJECT LIMITS FOR ANY REASON SHALL BE SEEDED WITH CLASS 2 SEEDING AS DIRECTED BY THE ENGINEER. NUTRIENTS SHALL CONFORM TO ARTICLE 250.04. THIS WORK WILL NOT BE MEASURED FOR PAYMENT BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS EXCAVATION AND GRADING OPERATIONS.

12. MULCH, UNLESS OTHERWISE PERMITTED BY THE ENGINEER, SHALL CONFORM TO METHOD 2, PROCEDURE 2, AS SPECIFIED IN ARTICLE 251.03. THIS WORK WILL NOT BE MEASURED FOR PAYMENT BUT WILL BE CONSIDERED INCLUDED IN THE COST OF THE VARIOUS EXCAVATION AND GRADING OPERATIONS.

13. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

14. EXISTING TREES THAT ARE NOT SHOWN ON THE PLANS AS "TO BE REMOVED" SHALL REMAIN UNDAMAGED.

15. SAW CUTTING ON ALL EDGES FOR REMOVAL ITEMS SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEM AS INDICATED IN AND IN ACCORDANCE WITH SECTION 440 OF THE STANDARD SPECIFICATIONS.

16. ALL DIMENSIONS ARE SHOWN IN FEET UNLESS NOTED. PAVEMENT THICKNESS, CULVERT SIZE, TRAFFIC SIGNAL CONDUIT SIZES, AND PAVEMENT MARKING WIDTHS ARE SHOWN IN INCHES UNLESS OTHERWISE NOTED.

17. 48" "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING AND END OF THE PROJECT PLUS AT INTERSECTING SIDE ROADS, AND WILL BE INCLUDED IN THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE.

18. EXCAVATION ADJACENT TO EDGE OF PAVEMENT SHALL BE PROTECTED WITH EXTENDED LEG BARRICADES WITH STEADY-RURN LIGHTS.

19. SHORT-TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED, BINDER, AND FINAL BITUMINOUS SURFACE. ONLY THE QUANTITY REMOVED FROM THE FINAL SURFACE SHALL BE

AS WORK ZONE PAVEMENT MARKING REMOVAL, A QUANTITY FOR TEMPORARY PAVEMENT MARKING EQUAL TO THE AMOUNT OF PERMANENT PAVEMENT MARKING HAS BEEN ADDED TO THE PLANS.

20. ALL TEMPORARY PAVEMENT MARKINGS WILL BE PLACED IN SUCH A MANNER SO AS NOT TO INTERFERE WITH THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.COST INLUDED IN REMOVAL OPERATION.

21. SHOULDER WIDENING FOR THE TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) SHALL BE INCLUDED IN THE UNIT PRICE OF THE TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT) AND CONSTRUCTED ACCORDING TO STANDARD 630301.

22. CHANGEABLE MESSAGE SIGNS SHALL BE INSTALLED (2 WEEKS) PRIOR TO CONSTRUCTION AT THE FOLLOWING LOCATIONS, AS DIRECTED BY THE ENGINNER:

WEST END OF PROJECT NORTH IL 111 SOUTH IL 111 NORTH IL 157 SOUTH IL 157 SOUTH IL 161 NORTH IL 159

NORTH IL 159 SOUTH IL 159 EAST END OF PROJECT

THE CONTRACTOR SHALL MODIFY THE MESSAGE ON EACH SIGN AS DIRECTED BY THE ENGINEER,

THE CONTRACTOR SHALL BE AWARE THAT THE MESSAGE BOARDS MAY REQUIRE RELOCATION THROUGHOUT THE DURATION OF THE PROJECT. NO ADDITIONAL COMPENSATION WILL BE ALLOWED

FOR RELOCATIONS. RELOCATION SHALL BE PAID FOR AS 109.04

23. THE CONTRACTOR SHOULD BE AWARE THAT EXISTING CONCRETE PATCHES SHALL BE MILLED AS PART OF THE PROPOSED HMA SURFACE REMOVAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE MILLING OF THE CONCRETE.

24. FOR STABILIZATION, A MINIMUM OF 16 SANDBAGS PER BARRICADE SHALL BE PLACED ON ALL TYPE III BARRICADES.

25. THE DISTRICT EIGHT BUREAU OF OPERATIONS SHALL BE NOTIFIED AT LEAST 10 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL PAVEMENT MARKINGS.

26. THE LENGTHS OF GUARDRAIL REMOVAL SPECIFIED INCLUDES THE ENTIRE RUN OF GUARDRAIL, INCLUDING TRAFFIC BARRIER TERMINALS, ETC.

27. ALL TRAFFIC CONTROL DEVICES SHALL BE SKID MOUNTED.

28. ALL EXCAVATION REQUIRED FOR THIS PROJECT SHALL BE USED OR PROPERLY DISPOSED OF WITHIN THE PROJECT RIGHT OF WAY AS DIRECTED BY THE ENGINEER AND SHALL MEET THE REQUIREMENTS OF ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.

29. ALL LEVELING BINDER OR BINDER SHALL BE GIVEN A FOG COAT (0.13 gal/sy) OF PRIME BEFORE THE SURFACE COURSE IS PLACED WHEN DIRECTED BY THE ENGINEER. THE FOG COAT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS MATERIALS (PRIME COAT) AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

30. BITMINOUS MATERIAL (PRIME COAT) SHALL BE APPLIED TO MILLED SURFACES AT THE RATE SHOWN IN THE PLANS AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR BITUMINOUS MATERIALS (PRIME COAT).

COMMITMENTS

SHEETS NO.

ST. CLAIR 87 2 CONTRACT NO. 76D96

NON

MIXTURE USE	SURFACE	POLY-LEVEL BINDER	INCIDENTAL SURF	BASE CRSE/BINDER	SHOULDERS >= 2.25"	SHOULDERS < 2.25"	PATCHING
AC/PG	SBS 76-22	SBS 76-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	See Spec.	See Spec	See Spec	See Spec	See Contract RAP	See Contract RAP	10%
DESIGN AIR VOIDS	4.0% @ Ndes=90	4.0% @ Ndes=50	4.0% @ Ndes=90	4.0% @ Ndes=90	Special Provison	Special Provison	4.0% @ Ndes=90
MIX COMPOSITION					**2.0% @ Ndes=30	**2.0% @ Ndes=30	IL-19.0
(GRADATION MIXTURE)	IL 12.5/9.5	IL 4.75		IL-19.0	NMAS 3/4"	NMAS 3/4"	
FRICTION AGGREGATE	MIXTURE "D"	MIXTURE "C"	MIXTURE "D"	MIXTURE "B"			MIXTURE "B"

•• TOP LIFT SHOULDERS - DESIGN THIS MIX AT 2.0% VOIDS AND ADD ASPHALT TO REDUCE VOIDS TO 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 mm) THICKNESS.

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